3658

Diag. Cht. No. 1222-2

Form 504

U. S. COAST AND GEODETIC SURVEY

DEPARTMENT OF COMMERCE

DESCRIPTIVE REPORT

Type of Survey HYDROGRAPHIC
Field No. H-3658
LOCALITY
State VIRGINIA
General locality CHESAPEAKE BAY
Locality CHESAPEAKE BAY ENTRANCE TO
CAPE CHARLES CITY
19/414
CHIEF OF PARTY
O. W. Ferguson
LIBRARY & ARCHIVES
DATE MAY 27, 1914

B-1870-1 (I)

COAST AND GEODETIC SURVEY.

O. H. Tittmann, Superintendent.

Survey of the Chesapeake Bay, Eastern Shore, Va.

TITLE SHEET

3658

For Hydrographic Sheet, C. Cape Charles Harbor, Va. Extending from near Old Plantation Light House to Cherrystone Creek.

(between)

Latitude 37 14 30 to 37 17 30

Longitude 76 1 00 to 76 2 30

Scale 1:5,000

March 1914.

Schooner "Matchless".

O. W. Ferguson, Assistant, C.&.G.Survey, in Command.

OBSERVERS.

O.W.Ferguson, Assistant.

James E. Marsh, Mate.

Walter E. Perkins, Deck Officer.

B. Paul Burtis, Deck Officer.

DEPARTMENT OF COMMERCE. April 30th, 1914

COAST AND GEODETIC SURVEY.

Superintendent. O. H. Tittmann

Survey of the Chesapeake Bay from entrance to Cape Charles City

TITLE SHEET

For Hydrographic Sheet A.

Extending from three miles below Fisherman Island to Cape Charles City

(between)

Latitude

Longitude 76 57 77 to

Scale, 1 : 20,000

From Sept, 23rd 1913 to January 20th 1914.

SCHOONER"MATCHLESS"

O.W. Ferguson, Assistant; C.&.G.S.in Command.

(observers)

O. W. Ferguson, Assistant.

James E. Marsh, Mate.

Douglass Karr, Aid.

M. D. Glessner, Deck Officer.

Walter E. Perkins, "

B. Paul Burtis,

DEPARTMENT OF COMMERCE.

COAST AND GEODETIC SURVEY.

O.H.TITTMANN, Superintendent.

Survey of the Chesapeake Bay from entrance to Cape Charles City, Va.

DESCRIPTIVE REPORT.

For Hydrographic Sheet 3658

Extending from three miles below Fishermans Island to Cape Charles City, Va.

(between)

Catitude 37 O2 to 37 16

Longitude 76 57 to 77 05

Scale 1:20,000.

From Sept 23 rd, 1913 to January 20 th, 1914.

SCHOONER "MATCHLESS".

O.W. Ferguson Assistant, C.& G. Survey, in Command.

OBSERVERS.

O.W.Ferguson, Assishant. James E.Marsh, Mate, Douglas Karr, Aid. M.D.Glessner, Deck Officer. Walter E. Perkins, Deck Officer. Paul B. Burtis, Deck Officer. H. W. Godsey, Chief Writer.

RECORDERS.

W.H.Clark, Aid. H.W.Godsey, C. W. A.S.Bristow, Writer 2 cl. LEADSMEN.

J.A.Roberson, Sea. Richard Diggs, Sea. and H.C.Tong, Sea. Coxswein.

H.H.Thomas, C.B.M. R. Myrdal, S.M.M. and W.H.Buckmaster Q.M. TIDE OBSERVERS.

The entire Crew.

Description Report Hydrographic Sheet A.Chesapeake Bay entrance to Cape Charles City, Va.April 30th 1914.

DESCRIPTIONS.

This sheet extends from deep water in the entrance south of Fishermans Island , to cape Charles City, Va. and from shore an average of three miles (as directed) to depth of from 12 to 36 feet. The bottom is all sandy and hard, favorable for clams and a considerably roughed up into bars holes and rigges all of whichare developed.

TOWNS.

Cape Charles City, Va. 16 miles above the entrance is the only town on the sheet and has a population of 1945. It is a harbor for a good many small ships all during the year. The New york, Philadelphia and Norfolk R.R.business is the principle feature of the town, where all freight is transfered to Barges and towed to Norfolk, and through passengers are transfered to steamboats and taken to Norfolk via. Old point Cumfort.

This Railroad , with some directions from the corps of Engineers , have greatly improved the entrance and harbor by building breakwaters, dredging, and putting up lights, and this is a shipping point for a large amount of produce. The U.S. Quarantine located at rishermans Island and consisting of large accommodations, is strictly under controll of the government, where a keeper is maintained.

OCCUPATION.

The occupation of the inhabitants of Cape Charles is largely relative to the Rail Road, large shaps being located here. It is a large distributing Center and many stores are located here. A large part of the land just back from the shore which is rendered barren from the shifting sand, is occupied

Entrance,

DESCRIPTION REPORE OF HYDROGRAPHIC SHEET A. CHESAPEAKE BAY, TO

CAPE CHARLES CITY, Va. April 30th, 1914.

as farms and sold or held at phenomenally high prices 150 to 300 per acre. A large part of the land is planted in potatoes as this crop has done well here for several years and produced large profits.

A goodly number of people are employed at fishing, crabbing, oystering and freighting.

PRODUCE.

The products of this region are potatoes, Cabbage , Peas and the various products of the farm in smaller quantities.

Oysters are cultivated in the creeks and large quantities of crabs are dredged off this bottom.

SHORES.

_ - -

The shores are sandy with quite shoal water making out from 100 m.to about a half mile. The belt from shore acck about 200 m. is covered with aregular sand dunes from 8 to 43 feet high, and are covered with a growth of timber generally pine. The bark of these pines are so permeated with sand that saw mills frequently refuse to work up the trees cut from near the shore.

Entranelle

DESCRIPTION REPORT OF HYDROGRAPHIC SHEET A. CHESAPEAKE BAY TO CAPE CHARLES CITY, VA. April 30th, 1914.

CREEKS

The only creeks on this shore are

- (1) A thoroughfare around Fisherman Island furnishing navigation to small boats drawing three feet.
- (2) Old Plantation Creek though quite ldrge is not navigable, there being a bulkhead accross its mouth and only two feet at low water, but at high water Batteaux and Bugeyes convey supplies in and out.
- (3) Cape Charles Creek is small and has been mostly made by dredging. It furnishes dockage for the Railroad and the town of Cape Charles.

WATER

Fresh water is obtained in abundance by digging wells or boring, is not of a real good quality, being impregnated with iron. The railroad and the town of Cape Charles are supplied from tanks, into which water is forced.

BOTTOM

The bottom is irregular in surface, uniformily sandy and hard. In front of Fisherman Island and behind the bar which is over a mile from shore, there is good holding bottom, also there is good holding bottom in the harbor at Cape Charles and northwest of the Breakwater.

The outer and lower end of Cherrystone Light House Bar has cut away materially, improving the North Channel, prolonged.

U. S. Schr. Matchless.

Entrance to

DESCRIPTION REPORT OF HYDROGRAPHIC SHEET A. CHESAPEAKE BAY TO

CAPE CHARLES CITY, VA. April 30th, 1914.

CURRENTS.

found at Old Plantation Flats Light House. In the enterance below and east of

Fisherman Island the currents are very strong, tearing in and out at every rise

at about two knots per hour at half tides and doublies 3 K at times

and fall of the tide, rendering hydrography difficulty, and the signals are far away.

Of war found quite impossible to find a water signal that could withstand then currents two was.

This region is well lighted and buoyed, with the Cape Henry and Cape Charles lights, light on the Quarantine Pier, the 35 ft. channel Light Ship with dredged channel further lighted and buoyed, Old Plantation Flats Light House, Cherrystone Light House, and the harbor lights at Cape Charles withred and black and striped buoys marking the channels and middle grounds. A whistling and lighted buoy should be in place of No.2 off the Nautilus Shoals and the Isaacs for guiding small steamers through the North channel, and at the inner middle ground buoy lower end should be placed a black and red bell buoy with light at night; and the same for the upper end of the middle. This cutoff would then be much used to great advantage, saving time and distance.

HARBORS

This sheet is an exposed region with wide waters and no harbors excepting the little one at Cape Charles City, maintained by the Pennsylvania R.R.Co..It is difficult to get over the bar and behind Fishermans Island, through the inlet, especially when the waves are breaking, and Old Plantation Creek is dangerous to enter, as it only affords two feet at low water.

DESCRIPTION REPORT OF HYDROGRAPHIC SHEET A. ENTRANCE TO CHESAPEAKE
BAY TO CAPE CHARLES CITY, VA. APRIL 30 th, 1914.

NAVAGATION

The channel around Nautical Shoals, from 25 to 64 feet, (in holes) continues good for 25 feet, and pratical; after some bouying, to Quarantine Station; stand $\frac{1}{2}$ mile out; then N.W.X.N. clearing the <u>Latimer Shoal</u> and passing one mile west of <u>Old Plantation</u> Flats Light House, up the bay. There should be a middle ground bouy at each end of Latimer Shoal, and Nun Bouy No.10 would be much better at night if lighted, and serve as a guide to the North Channel, straight to the bouy for 15 miles.

For entering Cape Charles City, from Old Point Comfort, and Light Ship 35, approach the Light House on a N.N.E. course and pass it on a course N.E.X.N.(true) 500 yards on the Starboard beam, if the second range (which is "O Arm", a water signal, and o White Slats on shore), And a deeper channel is sought; or take the course N.E.X.N.(true) in passing, if the first range is desired (which is two lights on shore); in either case continue untill the Red Beacon and large Middle Breakwater light (two bright white lights) are in range, and continue this course to Black Beacon, then N.X.E?(true)rounding in between Red outer breakwater light, and Red Beacon light, and the middle break waterlight, the last two which (forming the above range) are bright white lights; and enter the harbor.

CRAFTS.

But few schooners now ply these waters, but many Batteaux, Bug Eyes and launches, with gasoline power, are employed; also there is, (twice a day) large passenger steamers running between Cape Charles, Old Point and Norfolk; also a fleet of very large Tug Boats and Barges, (a ferry) in conjunction with the Penna. Railroad. Many boats are engaged dredging for crabs.

SHIPPING.

These boats are freighted with crabs, fish, fertalizer, farm products and with a large freightage of potatoes in season.

O. W. Lerguson, Assistant

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6.W. Gr

The inclosed ______, are points both permanent and conspicyous

Lower Sheet-Aanno to Chesapeake Bay to Cape Charles City, Va.

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1913-1914

Sheet A

	Low	er Sheet	\mathcal{A}		•
From Entra	nce to Chesa	peake Bay t	o Cape Char	les Lity, Va.	
1	Latitude	Longitude			
Station	o i m	o i m	e ./.		
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HYDROGRAPHIC SHEET 3658.

Vicinity of Cape Charles, Chesapeake Bay, Virginia, by Assistant O W. Ferguson in 1913.

TIDES.

	Cape Cha	rles
	Quarantine	City
	ft.	ft.
Mean low water, or plane of reference on staff	3.6	. 3.9
Lowest tide observed " "	2.2	1.6
Highest " " " "	8.4	7.9
Mean range of tide	3.0	2.3

EXAMINATION OF HYDROGRAPHIC SHEETS by the DIVISIONS OF FIELD WORK AND FIELD RECORDS.

Sheet No. 3658

1. +	Are numbers of hydrographic sheets adjoining limits of work
	shown? Yes
2.	Are transferred soundings of adjacent hydrographic sheets
	made to show that ground has been covered?
3 . +	Is sheet of proper size?
4. +	Is sheet well laid out, no additions required?
5.	Are limits of hydrography regular?
6. +	Are positions of signals accentuated by light dot of black
	ink to assist plotting?
7. +	Are tidal stations plotted on sheet?
8.	Is area of work completely covered?

9.	Are critical soundings and dangers shown distinctly?
10.+	Is the control good? how signals desirable.
	Are positions of signals clearly shown?
12.	Are soundings well distributed?
13.	Are shoals carefully and sufficiently developed?

14.	Do soundings cross satisfactoraly?
	· · · · · · · · · · · · · · · · · · ·

15.	Is existence or non-existence of a reported shoal determined?

16.	
	ings or diagonal sounding lines crossing same? . No
·	over bar madequetty developed
17.+	Are projection and plotting checked?
18.	Is the scale of this sheet sufficient to show the necessary
	details in the navigable channels?

19.	Is the shoreline shown?
20.+	Is there an accompanying list of plane table or sextant posi-
	tions of signals?
21.	Has sufficient attention been given to the development of
•	channel?

22.	Are sufficient bottom characteristics shown?

23.	Are sounding lines normal to coast?

24.	Have suspicious soundings been investigated?

25.	Are ranges or bearings given for important shoals?
	• • • • • • • • • • • • • • • • • • •
26	Are sailing directions given?

27.	
	oped?
28.	Are shallow channels for motor boats sounded?

29.	Is there a note as to coloration of water in or near mouths of rivers and pays?
30.	Is there any information given as to obtaining fresh water?
173	· ·
31.	Are there proper intervals between soundings?
32.	Are projecting points of land and reefs determined by suffi- cient lines with soundings at close intervals run at right
	angle to direction of points?
33.	Is there sufficient data to draw depth curves?
	্ৰত কৰা আৰু কৰে কৰা ভাৰতে কৰি কৰা কৰা আৰু কৰা কৰা কৰা আৰু কৰা আৰু কৰা আৰু কৰা কৰে কৰে কৰে কৰা কৰে কৰে কৰে কৰি
34.	Are shoal areas remote from shore properly developed by inde- pendent system of buoy signals placed in the vicinity of shoal?
35.	Are soundings obtained at docks in harbor?
36.4	Is there a full list of data effecting sheet given?
37.	Are description of hydrographic signals and marking of same "
	recorded? Wo
38.	Is there a list of land marks given?

	· · · · · · · · · · · · · · · · · · ·
39.+	Does descriptive report give date of instructions?

40.	Are small islets and rocks distinctly shown?
41.	Is information relative to anchorage given?
42.H	Are survey methods explained sufficiently?
43.	Are geographical names given on sheet?
44.	Are coast pilot notes given?
45.	Is the unit of soundings given in title?
46.	Are sufficient depth curves shown?
47.	Are aids to navigation shown?
48.	Are grass or kelp indications shown?
49.	Are sailing courses shown on sheet?
50.	Is descriptive note given as to visibility of shoals?

51.	Are dangers fully described in descriptive report?

52.	Is the character of reefs described on sheet?
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
53.	Are beaches indicated where vessels in distress could be safe-
	ly beached? No
54.	Are standard symbols used in drafting?
55.	Is information relative to currents given?
56.	Is there a statement as to certainty or probability of least
	depth over dangers given?
57.	Is the existence of certain shoals doubtful?
58.	Is a general description of coast given?

59.	Is information relative to commercial importance given?
	· · · · · · · · · · · · · · · · · · ·
60.	
	sheets?
61.	Are descriptions of headlands given?
62.	Is the nature of shoals whether coral rock or sand shown on
	sheet? No
63.+	Is the position of the tide gauge well selected? Is the tidal data sufficient for the reduction of soundings over the area
	of the sheet?
64.+	Have projection lines been numbered around all the edges?
65.+	Has the geographic position of one of the triangulation points on the sheet been inked near the bottom edge of the sheet?
66.	Was the speed of the sounding boat such as to allow vertical
	readings of the leadline?
	**********************************
67.	Were lines of soundings run along the axis of narrow channels?
	কৰে আছিল এই সংক্ৰাৰ কৰে স্থান কৰে স্থাৰ কৰে স্থান আছিল স্থান আছিল কৰিব আছিল আছিল সংকৰণ সংকৰণ স্থান আছিল আছিল আছিল সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ সংকৰণ
68 _{.•}	Have rocks or shoals seen from the sounding boat in passing
	been definitely located?
,	*******************************
69.	Have charted shoals reefs, or rocks been investigated?
	************************
70-	Have sounding records been kept in approved form?
	ရှိသည်။ မေရန်သည်။ မေ မြေရန်သည်။ မေရန်သည်။

71.	Are Wire drag surveys required?
72.	Is the area between the soundings taken and the shore indicated or described as being covered by reefs, etc. as the case may be?
Othe	r Remarks hue of soundings of 31 feet among general depth of 29 ft. probably incorrect.
	general depth of 29 ft. probably incorrect.
diti	The forgoing points marked by a cross (+) and the following ad- onal points are to be considered for wire drag hydrographic sheets
73.	What additional areas, if any, in the locality covered by the
	sheet should be dragged?
	***************************************
74.	Number of small areas inside limits of work missed by drag (few,
	moderate number, numerous)
<b>7</b> 5.	Are sheals discovered with drag clearly shown?
76.	Were shoals later covered by drag set at suitable depth?
	***************************************
77.	Are all areas missed by drag clearly shown?
78.	Are overlaps ample?
79.	Do effective depths conform to instructions under which the work
	was done?
80.	If work was done before present practice as regards effective depths was adopted, should the area be re-dragged to conform
	to the present practice?
	********************
81.	Are all shoals discovered shown on current issue of chart?

The Jollowing note was on hyd. sheet 3658, in pencil, when received in the office:

a few (10th 16th \$ 17th Oct.) of the first days soundings on this sheet about Fishermans Island were reduced from the Quarantine Gauge Book I furnished by Eapt. Hodgkins. All of the other soundings were reduced from the Cape Charles City Gauge. The seven days observations of all highs and lows at Quarantine, Old Plantation Lt. No. Cape Charles City and Nasawaddox Gauge show that the tides at Cape 6. City (at appear and of this sheet) are 50 minutes later than at Quarantine Gauge. The correction for this was made.